

# Eashan Gandotra

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## EXPERIENCE

- Chicago Trading Company** Chicago, IL  
*Quantitative Researcher* October 2024 - Present
  - Build and maintain production numerical models in C++, optimizing for computational performance and stability
  - Develop automated model calibration pipelines in Python using optimization and curve-fitting algorithms
  - Design predictive models using time series analysis, statistical learning, and feature engineering
  - Implement data pipelines and monitoring frameworks to track model performance in production
- Chicago Trading Company** Chicago, IL  
*Quant Trading Analyst* August 2023 - October 2024
  - Developed optimization algorithms for combinatorial matching problems
  - Completed internal coursework in statistics, data science, and predictive modeling
- Chicago Trading Company** Chicago, IL  
*Quant Trading Analyst Intern* May 2022 - August 2022
  - Built Python application for modeling correlation dynamics between related financial instruments
  - Won company hackathon award for developing neural network models to identify predictive signals in sports data
- McKesson Corporation** Remote  
*Automation Engineer Intern* May 2021 - August 2021
  - Built CI/CD pipelines and automation tools using Jenkins, Bash, and PowerShell

## EDUCATION

- Georgia Institute of Technology** Atlanta, GA  
*B.S. in Mathematics, Minor in Computing and Intelligence* August 2019 - May 2023  
GPA: 3.96, Dean's List all semesters
- Budapest Semesters in Mathematics** Budapest, Hungary  
*Research-oriented coursework in game theory, combinatorics, and geometry* Spring 2022

## PROJECTS & WRITING

- Physics-Informed Neural Networks for PDEs:** Implementing PINNs to solve diffusion equations, validated against custom finite difference solver. Exploring transfer learning from options pricing to the heat equation.  
github.com/eashang1/pinn-diffusion-pde
- Mathematical Writing:** Expository papers on statistical learning, Ramanujan's summation, and olympiad inequalities.  
Available at eashang1.github.io
- Game AI & Adversarial Agents:** Top 100 (of 50,000+) agents for Terminal competition using tree search, dynamic programming, and heuristic optimization
- de Bruijn Sequence Card Magic:** Web application for combinatorial card magic using de Bruijn sequences. Advised by Dr. Matt Baker. Demo: eashang1.github.io/a\_stuck\_wizard

## TECHNICAL SKILLS

- Languages:** Python, C++, SQL
- ML & Data Science:** PyTorch, scikit-learn, pandas, NumPy, time series analysis, regression, tree-based methods, feature engineering
- Tools:** Git, Linux, Jenkins,  $\LaTeX$
- Foundations:** Numerical methods, optimization, probability, statistics, linear algebra, algorithms

## HONORS AND AWARDS

- William Lowell Putnam Exam:** Top 500 (2020), top 1000 (2019, 2021, 2022) on premier undergraduate mathematics competition
- ICPC North American Championship:** Competed on Georgia Tech's top undergraduate competitive programming team
- Competitive Programming:** 500+ problems on Codeforces (peak rating: 1898), 500+ on Art of Problem Solving
- AIME Qualifier:** Top 2.5% on AMC 12, scored 75th percentile on AIME